

## BioFlix™ Study Sheet for How Synapses Work

**Part I. Draw a Synapse. In your drawing, be sure to show the sending neuron, synaptic terminal, receiving neuron, synaptic cleft, calcium channels, vesicles, neurotransmitter molecules, and receptors for neurotransmitter. Then describe the role of each structure in the table below.**

Synapse Structure	Role in How Synapses Work
Sending neuron	
Synaptic terminal	
Receiving neuron	
Synaptic cleft	
Calcium channel	
Vesicle	
Neurotransmitter	
Receptors for neurotransmitter	

**Part II. How does information from many different synapses determine whether a receiving neuron generates an action potential?**